

#11/508
3/9/01 1633

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/554,547

DATE: 03/09/2001
TIME: 07:44:36

Input Set : A:\Pto.txt
Output Set: N:\CRF3\03092001\I554547.raw

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C--> 3 <110> APPLICANT: Guido Christiaan Paesen, Patricia Anne Nuttall
5 <120> TITLE OF INVENTION: Tissue Cement
7 <130> FILE REFERENCE: 2488-1-001
9 <140> CURRENT APPLICATION NUMBER: 09/554,547
10 <141> CURRENT FILING DATE: 2000-07-07

12 <160> NUMBER OF SEQ ID NOS: 17
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1

17 <211> LENGTH: 81
18 <212> TYPE: PRT
19 <213> ORGANISM: R. appendiculatus
21 <400> SEQUENCE: 1

22 Met Lys Ala Phe Val Ala Val Ala Leu Leu Ser Ala Val Ser Val Ala
23 1 5 10 15
25 His Ala Ala Leu Lys Thr Asp Val Ala Ser Gly Pro Ala Gly Ser Gly
26 20 25 30
28 Ala Leu Ser Leu Gly Val Gly Gly Phe Pro Ser Gly Ala Ser Leu Gly
29 35 40 45
31 Ser Leu Ser Gly Val Thr Leu Ser Gly Ala Gly Ser Ser Val Ser Gly
32 50 55 60
34 Arg Pro Gly Ser Pro Gly Ser Ala Gly Pro Ser Ser Gly Pro Ala Val
35 65 70 75 80
37 Ser

41 <210> SEQ ID NO: 2
42 <211> LENGTH: 267
43 <212> TYPE: DNA
44 <213> ORGANISM: R. appendiculatus
46 <400> SEQUENCE: 2

47 aaaccaaggc aggacacagc agccatgaag gccttcgttg cagtcgccct tttgtctgca 60
48 gtttccgtgg cacatgctgc cctcaagact gacgtagcca gtggacctgc cggttctggt 120
49 gcactaagtc taggagttgg aggcctcccg tccggtgctt cgcttggcag ccttagtggc 180
50 gtaacctctc ctggtgctgg ctcttcctg tctggccgcc ctggatcccc tggatcggt 240
51 ggtcctagct ctggaccgc agtgctg 267

53 <210> SEQ ID NO: 3
54 <211> LENGTH: 90
55 <212> TYPE: PRT
56 <213> ORGANISM: R. appendiculatus
58 <400> SEQUENCE: 3

59 Asp Arg His Glu Val Lys Gly Ala Leu Leu Gln Gln Gln Gln Ala Ser
60 1 5 10 15
62 Gln Val Lys Gly Ala Leu Lys Gly Ala Ile Lys Gly Gly Leu Leu Gln
63 20 25 30
65 Gln Gln Ala Gln Ser Gln Val Gln Gly Ala Leu Lys Gly Ala Val Lys
66 35 40 45
68 Gly Ala Leu Leu Gln Gln Gln Gln Ala Ser Gln Val Lys Gly Ala Leu
69 50 55 60
71 Lys Gly Ala Ile Lys Val Cys Leu Leu His Gln Gln Ala Gln Ser Gln

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72 65          70          75          80
74 Ser Gln Val Gln Gly Ala Leu Lys Gly Ala
75          85          90
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 731
80 <212> TYPE: DNA
81 <213> ORGANISM: R. appendiculatus
83 <400> SEQUENCE: 4
84 ggaagtagcg agcatccgca ctgggggtctt tttggtgca tttgttttc ttttttcagc 60
85 gatccataac aatggccagt catgtgtaga tgcagccccc actcgacgtc ctatgccatc 120
86 tcctcctgga tgtgctggtc ctggctgttt tactgttatt gctactcttc taagacctgg 180
87 tcaaggacag caacctggtc aaggacagca acctggtcaa ggcgctcctc caatgccacg 240
88 tccaggacct gttccaggaa catctggatc acctcaagga agaccaatg gagcacctcg 300
89 tccaggacct gttcctggaa catctggatc acctcaagga agacctaacg caagacctcg 360
90 tccaggacct gttcctggaa caccaactgt atcctctccc ggatcatctc ctgggtcatc 420
91 tccaggataa tctctaggaa cgctctagg aacacctcta ggaacacctc aaggatcacc 480
92 ttttggatca tctctggat catcgatagg atcacctct gcaacatctc ctggatcatc 540
93 ttctccgtca cctcctggat cagcgaatgt gaacctgctg ggtcctcgac caattcgcg 600
94 tcctggaagg cattgacggg accagttctg ctgtgtattc ctccgtgcac aatgagggaa 660
95 ggcattgatg ggaccagttc tgctgtgtat ttctccgtgc acagtgaggg aatctatcaa 720
96 tagtgcaata a 731
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 730
100 <212> TYPE: DNA
101 <213> ORGANISM: R. appendiculatus
103 <400> SEQUENCE: 5
104 cggacgcaca ctctcgagg aaggtcatct agttccgcca acatgaagct gctctgtgca 60
105 ctageccctcg ttgcccttgg acttccatcc gccagcgctt accttggttg cttcggcggc 120
106 ctcggtggtt ggggtggcgg tctcggtgcc atctttggcc caggagctta tcccggtttc 180
107 tatggcctta acagcgtgca cctcttgggc gccaggttcc accatctctt cgggcgattc 240
108 ccgccaccac ccggtattgg agctgctgaa gcgcagggga acctaaagccc ataccctctt 300
109 gacatcaaca ccgtccaaga cccgaactgg ccaccccatg gtacgcgttg tctacggcgg 360
110 agtcttgcgg gagegcctct gaccctgacc agtcccaatt ccacaggatg tgctgtccc 420
111 agtcccccatt ccagtgcccc agccataccc agtcccacac ccacgacaag ttccataccc 480
112 agtgcctagt cctaccccc tccaatcca cagtaacacc gaagttcaca agaccgacgt 540
113 cgtcgccgct actccaggag gaccagtcct gctcggagtc ggtgtcaccg gtgtcaggcc 600
114 aggcgaacca agggctcgtg cctaagcttg atccaataga aagtcataac aatttagtca 660
115 gtgagctcca cgtaaattat gcattacaaa taaagaaaag tttgtctggc agtaaaaaaa 720
116 aaaaaaaaaa 730
118 <210> SEQ ID NO: 6
119 <211> LENGTH: 203
120 <212> TYPE: PRT
121 <213> ORGANISM: R. appendiculatus
123 <400> SEQUENCE: 6
124 Glu Val Ala Ser Ile Arg Thr Gly Val Phe Leu Ala Ala Phe Ala Phe
125 1 5 10 15
127 Leu Leu Ser Ala Ile His Asn Asn Gly Gln Ser Cys Val Asp Ala Ala
128 20 25 30
130 Pro Thr Arg Arg Pro Met Pro Ser Pro Pro Gly Cys Ala Gly Pro Gly

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131          35          40          45
133 Cys Phe Thr Gly Ile Ala Thr Leu Leu Arg Pro Gly Gln Gly Gln Gln
134          50          55          60
136 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Arg Pro Pro Met Pro Arg
137 65          70          75          80
139 Pro Gly Pro Val Pro Gly Thr Ser Gly Ser Pro Gln Gly Arg Pro Asn
140          85          90          95
142 Gly Ala Pro Arg Pro Gly Pro Val Pro Gly Thr Ser Gly Ser Pro Gln
143          100          105          110
145 Gly Arg Pro Asn Ala Arg Pro Arg Pro Gly Pro Val Pro Gly Thr Pro
146          115          120          125
148 Thr Val Ser Ser Pro Gly Ser Ser Pro Gly Ser Ser Pro Gly Ile Ser
149          130          135          140
151 Leu Gly Thr Pro Leu Gly Thr Pro Leu Gly Thr Pro Gln Gly Ser Pro
152 145          150          155          160
154 Phe Gly Ser Ser Leu Gly Ser Ser Ile Gly Ser Pro Pro Ala Thr Ser
155          165          170          175
157 Pro Gly Ser Ser Ser Pro Ser Pro Pro Gly Ser Ala Asn Val Asn Leu
158          180          185          190
160 Leu Gly Pro Arg Pro Ile Arg Gly Pro Gly Arg
161          195          200
164 <210> SEQ ID NO: 7
165 <211> LENGTH: 199
166 <212> TYPE: DNA
167 <213> ORGANISM: R. appendiculatus
169 <400> SEQUENCE: 7
170 acggactagg ttctgctggc gtccctctta ttggcggata cggctacggt cctttcgtag 60
171 gagccttcgc gtacggcttg tggggtggcc tcggtggcta tggctaccct gccttcggac 120
172 tctcctgggt tccacatggt ttggaggct ttggagcttc tccgtctgct gctggtttcc 180
173 gctcgttttg gagcctctt 199
175 <210> SEQ ID NO: 8
176 <211> LENGTH: 54
177 <212> TYPE: PRT
178 <213> ORGANISM: R. appendiculatus
180 <400> SEQUENCE: 8
181 Gly Leu Gly Phe Ala Gly Val Pro Leu Ile Gly Gly Tyr Gly Tyr Gly
182 1 5 10 15
184 Pro Phe Val Gly Ala Phe Ala Tyr Gly Leu Trp Gly Gly Leu Gly Gly
185 20 25 30
187 Tyr Gly Tyr Pro Ala Phe Gly Leu Ser Trp Val Pro His Gly Phe Gly
188 35 40 45
190 Gly Phe Gly Ala Ser Pro
191 50
194 <210> SEQ ID NO: 9
195 <211> LENGTH: 50
196 <212> TYPE: PRT
197 <213> ORGANISM: P. californica
199 <400> SEQUENCE: 9
200 Gly Tyr Gly Tyr Gly Ala Lys Lys Val Gly Gly Tyr Gly Tyr Gly Ala

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201      1              5              10              15
203 Lys Leu Gly Gly Tyr Gly Tyr Gly Ala Lys Ile Gly Gly Tyr Gly Tyr
204                      20                      25                      30
206 Gly Ala Lys Ser Gly Ile Gln Val Arg Ala Leu Gly Gly Tyr Gly Ala
207                      35                      40                      45
209 Gly Ala
210      50

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~~213 <210> SEQ ID NO: 10~~

214 <211> LENGTH: 199

215 <212> TYPE: ~~PRT~~

216 <213> ORGANISM: R. appendiculatus

218 <400> SEQUENCE: 10

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219 Ala Cys Gly Gly Ala Cys Thr Ala Gly Gly Thr Thr Thr Cys Gly Cys
220      1              5              10              15
222 Thr Gly Gly Cys Gly Thr Cys Cys Cys Thr Cys Thr Thr Ala Thr Thr
223                      20                      25                      30
225 Gly Gly Cys Gly Gly Ala Thr Ala Cys Gly Gly Cys Thr Ala Cys Gly
226                      35                      40                      45
228 Gly Thr Cys Cys Thr Thr Thr Cys Gly Thr Ala Gly Gly Ala Gly Cys
229                      50                      55                      60
231 Cys Thr Thr Cys Gly Cys Gly Thr Ala Cys Gly Gly Cys Thr Thr Gly
232      65              70              75              80
234 Thr Gly Gly Gly Gly Thr Gly Gly Cys Cys Thr Cys Gly Gly Thr Gly
235                      85                      90                      95
237 Gly Cys Thr Ala Thr Gly Gly Cys Thr Ala Cys Cys Cys Thr Gly Cys
238                      100                     105                     110
240 Cys Thr Thr Cys Gly Gly Ala Cys Thr Cys Thr Cys Cys Thr Gly Gly
241                      115                     120                     125
243 Gly Thr Thr Cys Cys Ala Cys Ala Thr Gly Gly Thr Thr Thr Thr Gly
244                      130                     135                     140
246 Gly Ala Gly Gly Cys Thr Thr Thr Gly Gly Ala Gly Cys Thr Thr Cys
247      145                     150                     155                     160
249 Thr Cys Cys Gly Thr Cys Thr Gly Cys Thr Gly Cys Thr Gly Gly Thr
250                      165                     170                     175
252 Thr Thr Cys Cys Gly Cys Thr Cys Gly Cys Thr Thr Thr Gly Gly Ala
253                      180                     185                     190
255 Gly Cys Cys Thr Cys Thr Thr
256                      195

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~~259 <210> SEQ ID NO: 11~~

~~260 <211> LENGTH: 148~~

261 <212> TYPE: PRT

262 <213> ORGANISM: R. appendiculatus

264 <400> SEQUENCE: 11

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265 Met Lys Leu Leu Cys Ala Leu Ala Leu Val Ala Leu Gly Leu Pro Phe
266      1              5              10              15
268 Gly Ser Ala Tyr Leu Gly Gly Phe Gly Leu Gly Gly Trp Gly Gly
269                      20                      25                      30
271 Gly Leu Gly Ala Ile Phe Gly Pro Gly Ala Tyr Pro Gly Phe Tyr Gly
272                      35                      40                      45

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274 Leu Asn Ser Val His Leu Leu Gly Gly Arg Phe His His Leu Phe Gly
275      50                      55                      60
277 Arg Phe Pro Pro Pro Pro Gly Ile Gly Ala Ala Glu Ala Gln Gly Asn
278      65                      70                      75                      80
280 Leu Ser Pro Tyr Pro Leu Asp Ile Asn Thr Val Gln Asp Pro Asn Trp
281                      85                      90                      95
283 Pro Pro His Gly Thr Arg Cys Leu Arg Arg Ser Leu Ala Gly Ala Pro
284                      100                      105                      110
286 Leu Thr Leu Thr Ser Pro Asn Ser Thr Gly Cys Ala Cys Pro Ser Pro
287                      115                      120                      125
289 His Ser Ser Ala Pro Ala Ile Pro Ser Pro Thr Pro Thr Thr Ser Ser
290                      130                      135                      140
292 Ile Pro Ser Ala
293 145

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~~296 <210> SEQ ID NO: 12~~

297 <211> LENGTH: 271

298 <212> TYPE: DNA

299 <213> ORGANISM: R. appendiculatus

301 <400> SEQUENCE: 12

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302 gatcggcacg aggtcaaggg agccctcctt cagcaacaac aagcatcgca ggtaaggga 60
303 gccctcaagg gagcaatcaa ggggtgtctt cttcagcaac aagcccaatc ccaagtccaa 120
304 ggagctctta agggagccgt caaggagacc ctccttcagc aacaacaggc atcacaggtc 180
305 aaggagagccc tcaaggagc catcaaggtc tgtctccttc atcagcaagc ccaatcccaa 240
306 tccaagtgc agggagctct taaggagct g
307                                     271

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~~308 <210> SEQ ID NO: 13~~

309 <211> LENGTH: 431

310 <212> TYPE: DNA

311 <213> ORGANISM: R. appendiculatus

~~313 <400> SEQUENCE: 13~~

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314 ggcttcggca gccactcag cggtttcggc agccactca gcggttcggc cagccactc 60
315 agcggcttcg gcagccact cagcggattc ggtagccac tcagcggatt cggtagcca 120
316 ctcagcggat tcggtagccc attcggcagc tacggtcccc tgtccatggg tctcggagcc 180
317 cccaggagat tccccggcga cctccgcctc atctctgagc ccacctcccg ccttcccggt 240
318 agcgatgccg tctacaccgc tgtctgccag cccgtcaca gcgcagtggg ccacaccgag 300
319 ggtccccatg tcaccggcca agtacaggaa cacgttgcaa tctaagcttt tctaaccgca 360
320 agctatatta cgacggatta gtcaacacag tcattttaag caaatgtatc taaaataaaa 420
321 tttatctgcc t
322                                     431

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~~323 <210> SEQ ID NO: 14~~

324 <211> LENGTH: 114

325 <212> TYPE: PRT

326 <213> ORGANISM: R. appendiculatus

~~328 <400> SEQUENCE: 14~~

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329 Gly Phe Gly Ser Pro Leu Ser Gly Phe Gly Ser Pro Leu Ser Gly Phe
330      1                      5                      10                      15
332 Gly Ser Pro Leu Ser Gly Phe Gly Ser Pro Leu Ser Gly Phe Gly Ser
333      20                      25                      30
335 Pro Leu Ser Gly Phe Gly Ser Pro Leu Ser Gly Phe Gly Ser Pro Phe
336      35                      40                      45
338 Gly Ser Tyr Gly Pro Leu Ser Met Gly Leu Gly Ala Pro Arg Arg Phe

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VERIFICATION SUMMARY

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Input Set : A:\Pto.txt

Output Set: N:\CRF3\03092001\I554547.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date